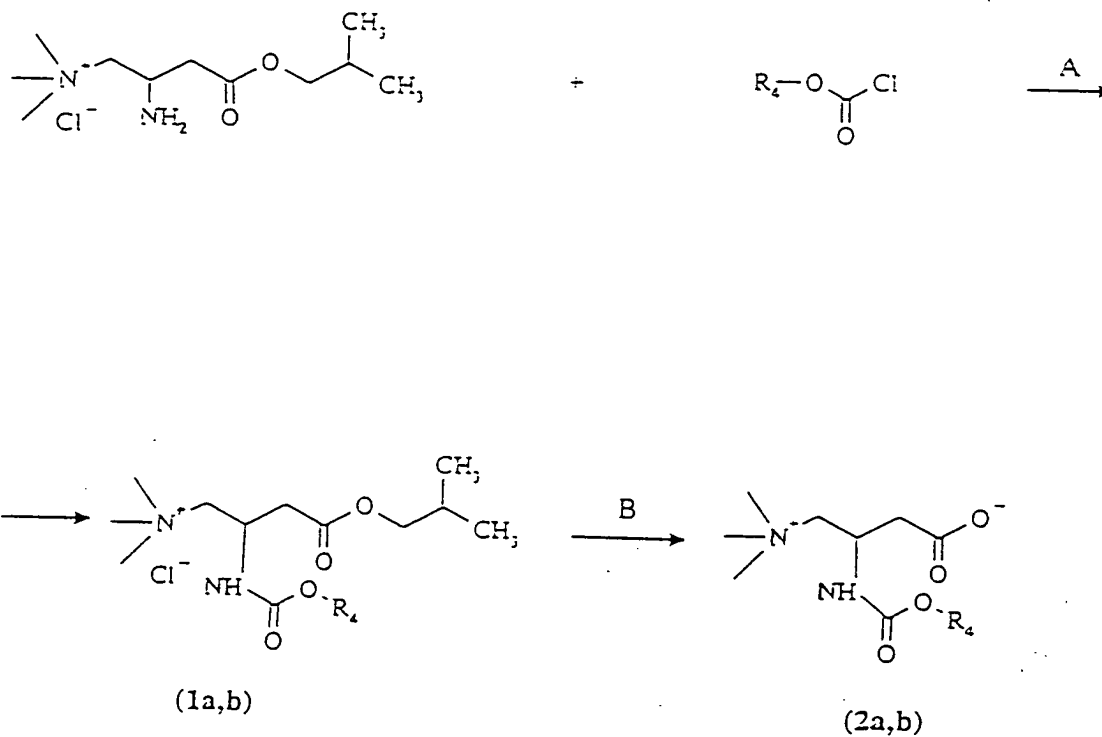


Figure 1

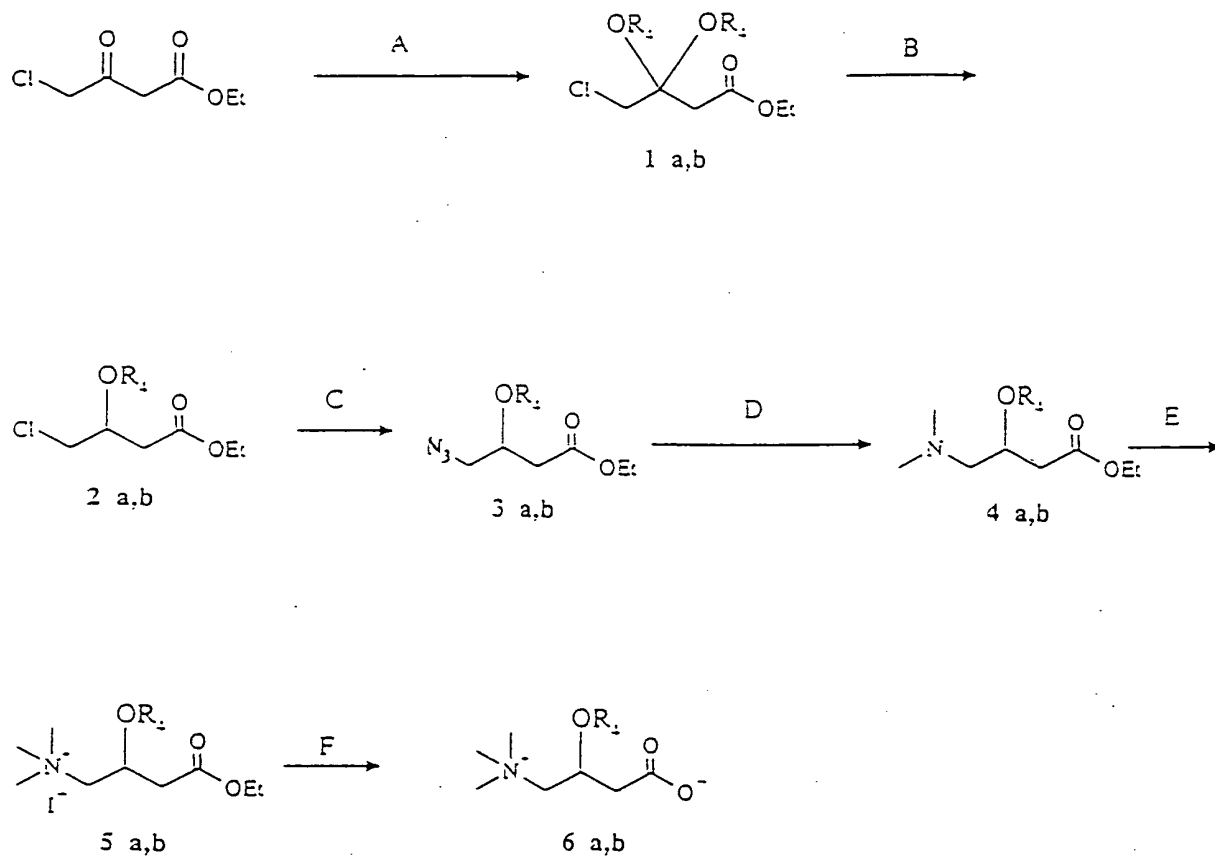


$\text{R}_4 =$ a) $-(\text{CH}_2)_7\text{CH}_3$
b) $-(\text{CH}_2)_8\text{CH}_3$

A) base
B) IRA 402/ OH^- form

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Figure 2

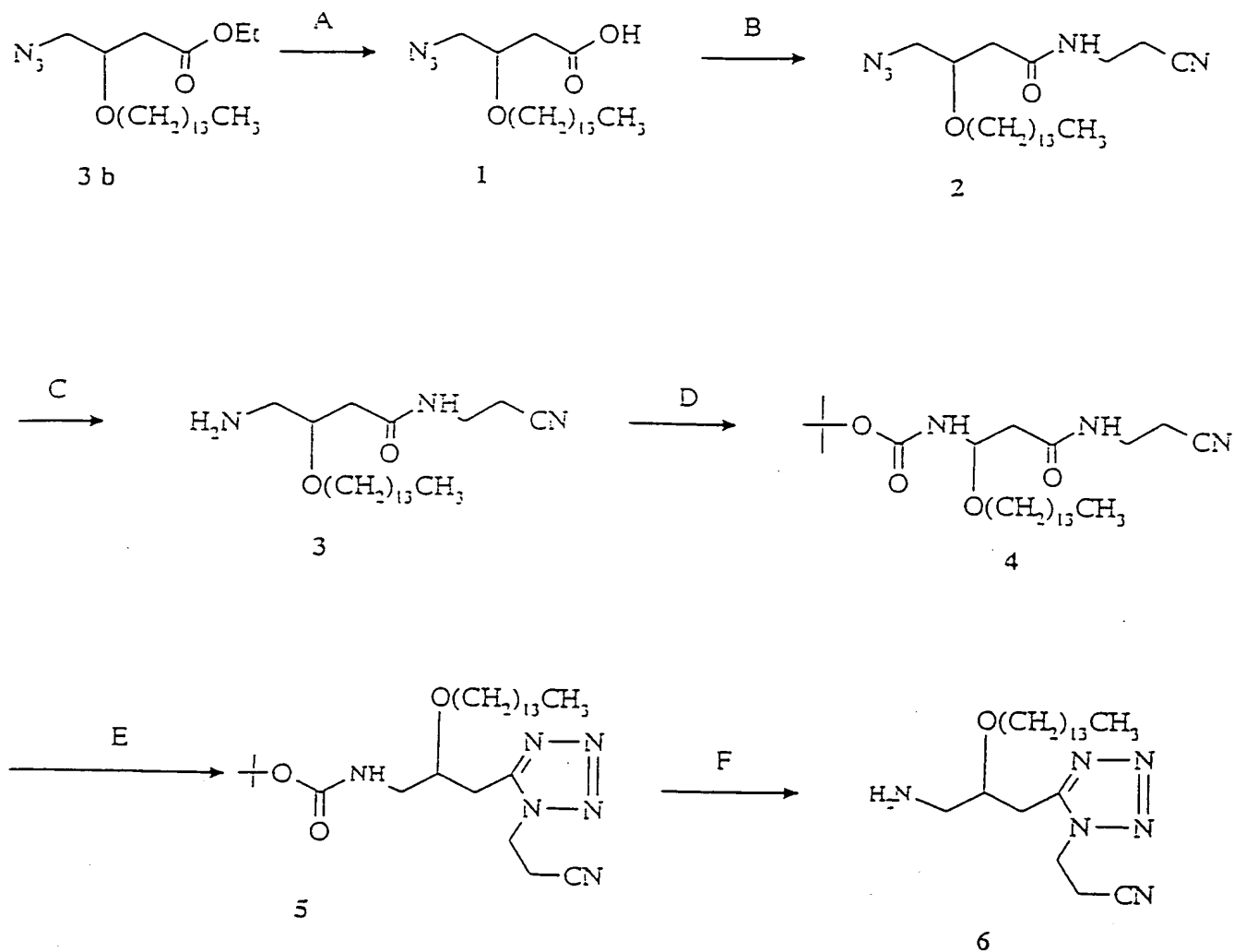


R₄ = a) - (CH₂)₇CH₃
b) - (CH₂)₁₃CH₃

A) R₄OH, SOCl₂
B) Et₃SiH, BF₃·Et₂O
C) NaN₃
D) Pd/C H₂, HCHO
E) CH₃I
F) IRA 402 OH⁻

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Figure 3 A



A) NaOH 4N, MeOH, 16h, t.a

B) $\text{H}_2\text{NCH}_2\text{CH}_2\text{CN}$, DMF, TEA, DEPC

C) THF, Ph_3P

D) $(\text{BOC})_2\text{O}$, NaOH 1N

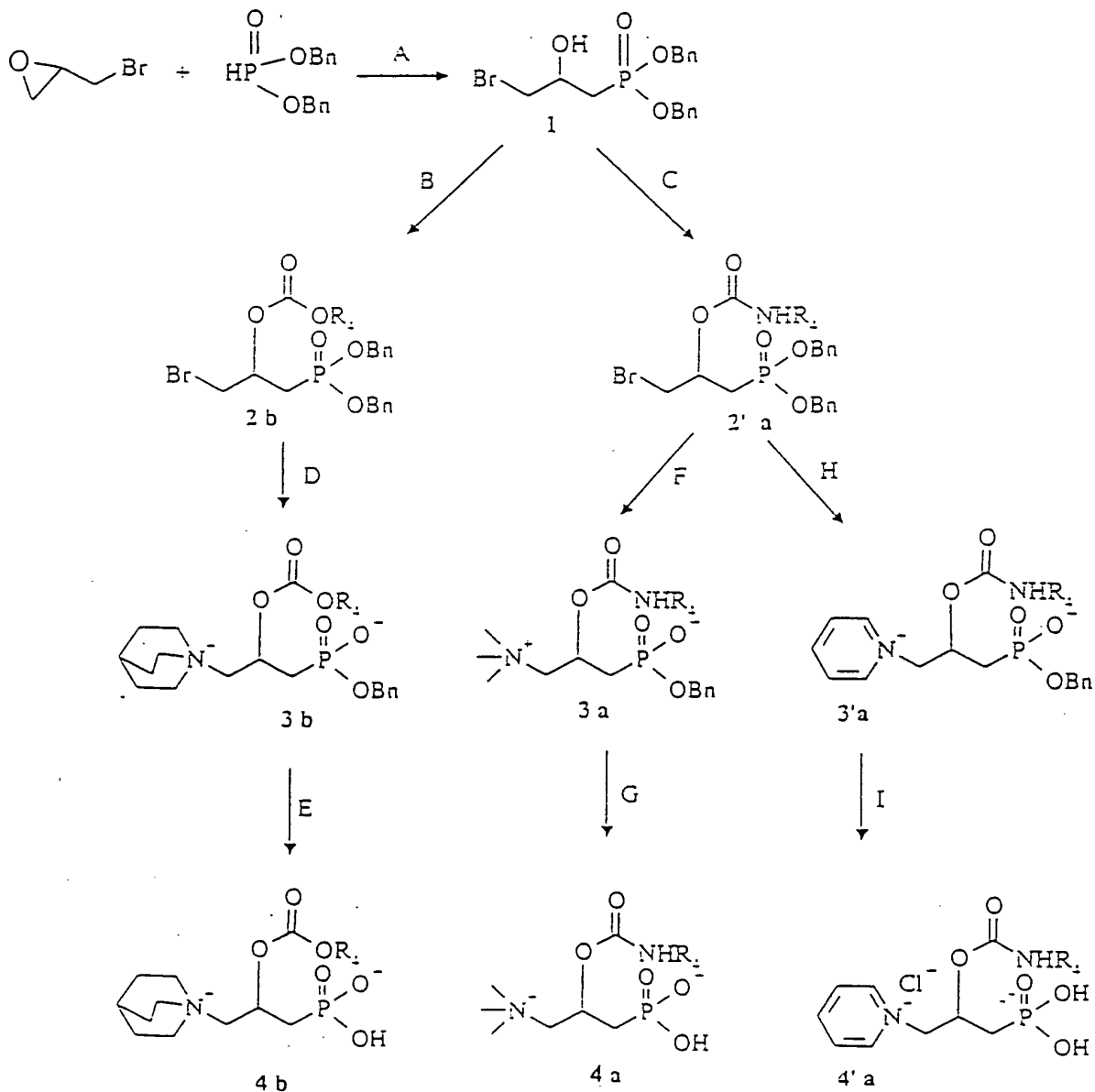
E) THF, Ph_3P , DEAD, Et_3SiN_3

F) HCl 3N, NaOH 1N



L) IRA 402 aktiv. OH^-

Figure 4



$R_4 =$ a) $-(\text{CH}_2)_7\text{CH}_3$
b) $-(\text{CH}_2)_{13}\text{CH}_3$

A) 1) BuLi 2) $\text{BF}_3 \cdot \text{Et}_2\text{O}$
B) $R_4\text{OCOCl}$, Base
C) $R_4\text{N}=\text{C}=\text{O}$, $\text{BF}_3 \cdot \text{Et}_2\text{O}$
D) Quinuclidine F) Trimethylamine
H) Pyridine
E=G) H_2 , Pd/C